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**INFORMATION  
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STATEMENT**



SHEET 1 OF 4

*Complete if known*

Application Number: 09/889,630

Filing Date: July 19, 2001

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First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

Attorney Docket Number: 0685-UNMC.63139S

**UNITED STATES PATENT DOCUMENTS**

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR

**FOREIGN PATENT DOCUMENTS**

EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT

**OTHER PRIOR ART - NON-PATENT DOCUMENTS**

WAC	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	LILJA, H. et al., "Three Predominant Proteins Secreted by the Human Prostate Gland"; The Prostate, 12: 29-38 (1988)
	C2	BANAS, B. et al., "Analysis of the promoter of the human prostatic acid phosphatase gene"; Biochimica et Biophysica Acta 1217: 188-194 (1994)
	C3	CLARKE, R. et al., "Progression of human breast cancer cells from hormone-dependent to hormone-independent growth both <i>in vitro</i> and <i>in vivo</i> "; Proc. Natl. Acad. Sci., 86: 3649-3653 (1989)
	C4	CLEUTJENS, K.B.J.M. et al., "An Androgen Response Element in a Far Upstream Enhancer Region Is Essential for High, Androgen-Regulated Activity of the Prostate-Specific Antigen Promoter"; Molecular Endocrinology, Vol. 11 No. 2, 148-161 (1997)
	C5	COHEN, P., "Classification of Protein-Serine/Threonine Phosphatases: Identification and Quantitation in Cell Extracts"; Methods in Enzymology, Vol. 201, 389-398 (1991)
AC	C6	CULIG, Z., et al., "DNA Sequence of the Androgen Receptor in Prostatic Tumor Cell Lines and Tissue Specimens Assessed by Means of the Polymerase Chain Reaction"; The Prostate, 22: 11-22 (1993)
AC	C7	GARCIA-ARENAS, R. et al., "The expression of prostatic acid phosphatase is transcriptionally regulated in human prostate carcinoma cells"; Molecular and Cellular Endocrinology, 111: 29-37 (1995)

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EXAMINER'S SIGNATURE	Arun Kr. Chakrabarti	DATE CONSIDERED	9/24/02
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**INFORMATION  
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SHEET 2 OF 4

*Complete if known*

Application Number: 09/889,630

Filing Date: July 19, 2001

First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

Attorney Docket Number: 0685-UNMC.631 US

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JAN 30 2001  
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<i>ew Ac</i>	C8	GITTES, R.F., "Carcinoma of the Prostate"; The New England Journal of Medicine, Vol. 324, No. 4, 236-245 (1991)
	C9	GHOSH-CHOUDHURY, G. et al., "Stable Transfer of a Mouse Dihydrofolate Reductase Gene into a Deficient Cell Line Using Human Adenovirus Vector"; Biochemical and Biophysical Research Communications, Vol. 147, No. 3, 964-973 (1987)
	C10	GRAYHACK, J.T. et al., "Carcinoma of the Prostate, Hormonal Therapy"; Cancer 60: 589-601 (1987)
	C11	GRUPPUSO, P.A. et al., "Growth Arrest Induced by Transforming Growth Factor $\beta$ 1 Is Accompanied by Protein Phosphatase Activation in Human Keratinocytes"; The Journal of Biological Chemistry, Vol. 266, No. 6, 3444-3448 (1991)
	C12	LANGELER, E.G. et al., "Effect of Culture Conditions on Androgen Sensitivity of the Human Prostatic Cancer Cell Line LNCaP"; The Prostate 23: 213-223 (1993)
	C13	LI, H. et al., "A phosphotyrosyl-protein phosphatase activity associated with acid phosphatase from human prostate gland"; Eur. J. Biochem. 138: 45-51 (1984)
	C14	LIN, M. et al., "The Epidermal Growth Factor Receptor from Prostate Cells Is Dephosphorylated by a Prostate-Specific Phosphotyrosyl Phosphatase"; Molecular and Cellular Biology, Vol. 8, No. 12, 5477-5485 (1988)
	C15	LIN, M. et al., "Human Prostatic Acid Phosphatase and Its Phosphotyrosyl-Protein Phosphatase Activity"; Adv. Prot. Phosphatases 4, 199-228 (1987)
	C16	LIN, M. et al., "Effect of cell density on androgen regulation of the mRNA level of human prostatic acid phosphatase"; Molecular and Cellular Endocrinology, 99: R21-R24 (1994)
	C17	LIN, M. et al., "Tyrosine Phosphorylation of a 185 kDa Phosphoprotein (pp185) Inversely Correlates with the Cellular Activity of Human Prostatic Acid Phosphatase"; Biochemical and Biophysical Research Communications, 226: 206-213 (1996)
	C18	LIN, M. et al., "Regulation of the Expression of Prostatic Acid Phosphatase in LNCaP Human Prostate Carcinoma Cells"; Cellular and Molecular Biology Research, Vol. 39, No. 8, 739-750 (1993)
	C19	LIN, M. et al., "Growth Inhibition of Androgen-Insensitive Human Prostate Carcinoma Cells by a 19-Norsteroid Derivative Agent, Mifepristone"; The Prostate 26: 194-204 (1995)
	C20	LIN, M. et al., "Human prostatic acid phosphatase has phosphotyrosyl phosphatase activity"; Biochem. J., 235: 351-357 (1986)
<i>Ac</i>	C21	HOROSZEWCZ, J.S. et al., "LNCaP Model of Human Prostatic Carcinoma"; Cancer Research, 43: 1809-1818 (1983)
<i>Ac</i>	C22	LIN, M. et al., "Tyrosyl Kinase Activity Is Inversely Related to Prostatic Acid Phosphatase Activity in Two Human Prostate Carcinoma Cell Lines"; Molecular and Cellular Biology, Vol. 6., No. 12, 4753-4757 (1986)

EXAMINER'S SIGNATURE

*Arun K. Chakrabarti*

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9/24/02

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**INFORMATION  
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SHEET 3 OF 4

Complete if known

Application Number: 09/889,630

Filing Date: July 19, 2001

First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

Attorney Docket Number: 0685-UNMC.63131US

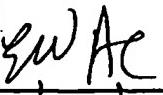
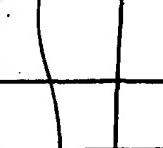
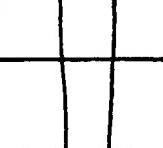
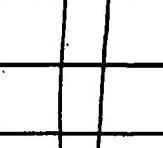
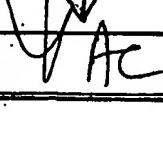
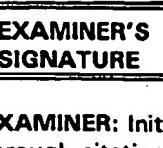
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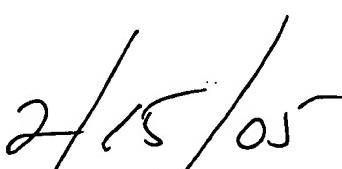
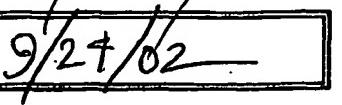
<i>EW AC</i>	C23	LIN, M. et al., "Expression of Human Prostatic Acid Phosphatase Correlates with Androgen-stimulated Cell Proliferation in Prostate Cancer Cell Lines"; The Journal of Biological Chemistry, Vol. 273, No. 10, 5939-5947 (1998)
	C24	LIN, M. et al., "The cellular level of prostatic acid phosphatase and the growth of human prostate carcinoma cells"; Differentiation, 57: 143-149 (1994)
	C25	LIN, M. et al., "Cationic Liposome-Mediated Incorporation of Prostatic Acid Phosphatase Protein Into Human Prostate Carcinoma Cells"; Biochemical and Biophysical Research Communications, Vol. 192, No. 2, 413-419 (1993)
	C26	LIN, M. et al., "Regulation of Prostatic Acid Phosphatase Expression and Secretion by Androgen in LNCaP Human Prostate Carcinoma Cells"; Archives of Biochemistry and Biophysics, Vol. 300, No. 1, 384-390 (1993)
	C27	LIN, M. et al., "Expression of Human Prostatic Acid Phosphatase Activity and the Growth of Prostate Carcinoma Cells"; Cancer Research, 52: 4600-4607 (1992)
	C28	LIN, M. et al., "Purification and Characterization of a New Human Prostatic Acid Phosphatase Isoenzyme"; Biochemistry, 22: 1055-1062 (1983)
	C29	MENG, T., "Tyrosine Phosphorylation of c-ErbB-2 Is Regulated by the Cellular Form of Prostatic Acid Phosphatase in Human Prostate Cancer Cells"; The Journal of Biological Chemistry, Vol. 273, No. 34, 22096-22104 (1998)
	C30	OSTANIN, K. et al., "Heterologous Expression of Human Prostatic Acid Phosphatase and Site-directed Mutagenesis of the Enzyme Active Site"; The Journal of Biochemical Chemistry, Vol. 269, No. 12, 8971-8978 (1994)
	C31	PANG, S. et al., "Identification of a Positive Regulatory Element Responsible for Tissue-specific Expression of Prostate-specific Antigen"; Cancer Research, 57: 495-499 (1997)
	C32	PORVARI, K. et al., "Differential Androgen Regulation of Rat Prostatic Acid Phosphatase Transcripts"; Biochemical and Biophysical Research Communications, Vol. 213, No. 3, 861-868 (1995)
	C33	RUIZEVLD DE WINTER, J.A. et al., "Androgen Receptor Heterogeneity in Human Prostatic Carcinomas Visualized by Immunohistochemistry"; Journal of Pathology, Vol. 161: 329-332 (1990)
<i>V AC</i>	C34	SAKAI, H. et al., "Prostate Specific Antigen and Prostatic Acid Phosphatase Immunoreactivity as Prognostic Indicators of Advanced Prostatic Carcinoma"; The Journal of Urology, Vol. 149, 1020-1023 (1993)
<i>V AC</i>	C35	SCHNEIDER, G. et al., "Three-dimensional structure of rat acid phosphatase"; The EMBO Journal, Vol. 12, No. 7, 2609-2615 (1993)

EXAMINER'S SIGNATURE	<i>Arun Kr. Chakrabarti</i>	DATE CONSIDERED	<i>2/15/05</i>
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SHEET 4 OF 4		<b>RECEIVED</b> <small>FEB 04 2002</small> <small>TECH CENTER 1600/498</small>	

	<b>C36</b>	SHAN, J. et al., "Steroid-Involved Transcriptional Regulation of Human Genes Encoding Prostatic Acid Phosphatase, Prostate-Specific Antigen, and Prostate-Specific Glandular Kallikrein"; Endocrinology, Vol. 138, No. 9, 3764-3770 (1997)
	<b>C37</b>	SHARIEF, F.S. et al., "Nucleotide Sequence of Human Prostatic Acid Phosphatase ACPP Gene, Including Seven ALU Repeats"; Biochemistry and Molecular Biology International, Vol. 33, No. 3, 561-565 (1994)
	<b>C38</b>	SINHA, A.A. et al., "Relationship of Prostatic Acid Phosphatase Localization in Human Prostate by a Monoclonal Antibody With the Gleason Grading System"; The Prostate, 13: 1-15 (1988)
	<b>C39</b>	SOLIN, T. et al., "Gene expression and prostate specificity of human prostatic acid phosphatase (PAP): evaluation by RNA blot analyses"; Biochimica et Biophysica Acta, 1048: 72-77 (1990)
	<b>C40</b>	SUZUKI, H. et al., "Inhibition of Growth and Increase of Acid Phosphatase by Testosterone on Androgen-Independent Murine Prostatic Cancer Cells Transfected With Androgen Receptor cDNA"; The Prostate, 25: 310-319 (1994)
	<b>C41</b>	VALENCIA, A. et al., "Identification of a protein-tyrosine phosphatase (SHP1) different from that associated with acid phosphatase in rat prostate"; FEBS Letters, 406: 42-48 (1997)
	<b>C42</b>	VAN DER KWAST, T.H. et al., "Androgen Receptors in Endocrine-Therapy-Resistant Human Prostate Cancer"; Int. J. Cancer, 48: 189-193 (1991)
	<b>C43</b>	VIRKKUNEN, P. et al., "Structural Comparison of Human and Rat Prostate-Specific Acid Phosphatase Genes and Their Promoters: Identification of Putative Androgen Response Elements"; Biochemical and Biophysical Research Communications, Vol. 202, No. 1, 49-57. (1994)
	<b>C44</b>	SHAW, L.M. et al., "Immunological and Clinical Specificity of the Immunohistochemical Determination of Prostatic Acid Phosphatase"; Annals New York Academy of Sciences, 390: 73-88 (1982)
	<b>C45</b>	SAKAI, H. et al., "Immunohistochemical Prostatic Acid Phosphatase Level as a Prognostic Factor of Prostatic Carcinoma"; The Prostate, 19: 265-272 (1991)

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